

Name(s) of Risk Team Members: G. Murdock , F. Scheifele, A. Etkin				Point Value → Parameter ↓		1		2		3		4		5		
Job Title: Electrical Work, High Energy >600V Job Number or Job Identifier: JRA 5-06				Frequency (B)		≤once/year		≤once/month		≤once/week		≤once/shift		>once/shift		
Job Description: Removal of LOTO of the STAR magnet powers supplies for heat run				Severity (C)		First Aid Only		Medical Treatment		Lost Time		Partial Disability		Death or Permanent Disability		
Training and Procedures List (optional): C-A-OPM 11.4.3.b, STAR Power Supply START-UP Check Off List				Likelihood (D)		Extremely Unlikely		Unlikely		Possible		Probable		Multiple		
Approved by: <i>E. Lessard</i> Date: 6-1-06 Rev. 0																
Stressors (if applicable, please list all): Noise				Reason for Revision (if applicable):						Comments:						
				Before Additional Controls									After Additional Controls			
Job Step / Task	Hazard	Control(s)	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	Control(s) Added to Reduce Risk	Stressors Y/N	# of People A	Frequency B	Severity C	Likelihood D	Risk* AxBxCxD	% Risk Reduction
STAR Power Supply Operator confirms setpoint of STAR Magnet Power supplies are set to zero	None	None	N	1	5	1	1	5								
Enter 2 nd floor of service wing	Noise	Hearing protection, training	Y	2	5	1	2	20								
Verify the power supplies have no voltage on voltmeters or red ON lights lit. This will allow easy way to verify supply is off.	None	None	Y	2	5	1	1	10								
Verify the 5 power supplies are in Local”	None	None	Y	2	5	1	1	10								
Confirm all power supply Kirk keys are captured in the transfer blocks and that the main keys are in the blocks	None	None	Y	2	5	1	1	10								

Engage 13.8 kV breaker racking motor mechanisms	Pinch hand	Training and experience	Y	1	5	1	1	5								
Connect 13.8 kV racking motor to power (plug) and remote operating box	Shock	Use of safe electrical equipment, connectors and plugs	Y	1	5	2	1	10								
Release 13.8kV breaker and 480V disconnects Kirk Keys, insert in breaker and disconnects and release mechanisms	None	None	Y	2	5	1	1	10								
Confirm 120 VAC control circuit breakers in PSCP panel are on	None	None	Y	2	5	1	1	10								
Remotely rack in 13.8kV breaker from TEST position	Arc blast	Breaker door closed and locked, remote operation, protection provided by nearby massive power supply cabinets, positioned out of direct line C-AD management has implemented requirements and mechanisms to meet PPE requirements identified in NFPA 70E as of December 22, 2004. Enhanced PPE requirements established April 2006. See Further Description below. Implementation of a plan to meet OSHA's NRTL requirements began June 1, 2005.	Y	2	5	3	2	60	Investigating using TV with audio to permit operation to be performed from outside of the room	N	1	5	1	1	5	92%
Disconnect racking motor power and remote operating box and return to cabinet.	Shock	Use of safe electrical equipment, connectors and plugs	Y	1	5	2	1	10								
Remove 13.8kV racking motor mechanisms	Pinch hand	Training and experience	Y	1	5	1	1	5								
Check circuit breaker 41ground fault relay contact are open	None	None	Y	2	5	1	1	10								
Close four magnet power supply fused disconnects (PTT-east and west, Space Trim east and west)	Shock	Training, C-AD management has implemented requirements and mechanisms to meet PPE requirements identified in NFPA 70E as of December 22, 2004. Enhanced PPE requirements established April 2006. Implementation of a plan to meet OSHA's NRTL requirements began June 1, 2005.	Y	1	5	2	1	10								

